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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/721,488	11/22/2000	Barry L. Hass	2204/A66	2160

34845 7590 11/03/2005

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EXAMINER

DAVIS, CYNTHIA L

ART UNIT PAPER NUMBER

2665

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/721,488

Applicant(s)

HASS ET AL.

Examiner

Cynthia L. Davis

Art Unit

2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 30 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-14,16-26,28-40,42-50,52-59,61-70 and 72-76 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-2, 4-14, 16-26, 28-40, 42-50, 52-59, 61-70, and 72-76 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments with respect to claims 1, 5-13, 17-25, 29-37, 39, 43-49, 53-58, 62-67, and 72-75 have been considered but are moot in view of the new ground(s) of rejection.
2. Regarding claims 38 and 68, Goebel is a computer-related invention, as is Goguen; they are both directed to using computer code to control hardware devices, so the combination is proper.

### *Claim Rejections - 35 USC § 103*

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claims 69-70, 72-74, and 76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goguen in view of Chuah.

Regarding claim 69, a communication system comprising a head-end device in communication with a tail-end device via a number of routes including a tunnel for routing information to various destinations is disclosed in Goguen, figure 3, and column 3, lines 35-56 (the network elements in figure 3 are routers, which are further connected to other destinations in the network, which are not shown in the figure). The head-end device being operably coupled to determine a number of said destinations that are serviced by said tail-end device and route information to said serviced destinations over said tunnel is disclosed in column 3, lines 7-9. The routing being done responsive to the destinations being within a predetermined number of hops of the tail-end device is

missing from Goguen. However, Chuah (6496491) discloses in column 17, line 38- column 18, line 15, tunnels that can increase or decrease their number of hops based on congestion in the tunnel. The destinations serviced by such a tunnel would be with in a predetermined number of hops of the end of the tunnel, depending on where the system decides to put the end of the tunnel. It would have been obvious to one skilled in the art at the time of the invention to limit the number of hops that will be serviced by the end of the tunnel. The motivation would be to avoid congestion in the tunnel. Regarding claims 5, 17, 29, 43, 53, 62, and 72, wherein said serviced destinations comprise said tail-end device is disclosed in Goguen is disclosed in column 3, lines 7-9 (the packets are routed via the IP address to the tail-end device).

Regarding claim 70, wherein said serviced destinations comprise directly connected hosts/subnets of said tail-end device is missing from Goguen. However, Chuah (6519254) discloses in figure 3, a tail end device (element 25) that is an ISP, which is directly connected to the destinations it services. It would have been obvious to one skilled in the art at the time of the invention to service destinations directly connected to the end of the tunnel. The motivation would be to use the tunnel as the fastest route to a group of destinations connected to the end of the tunnel.

Regarding claim 72, wherein said serviced destinations comprise said tail-end device is disclosed in Goguen is disclosed in column 3, lines 7-9 (the packets are routed via the IP address to the tail-end device).

Regarding claim 73, wherein said serviced destinations comprise a destination for which said tunnel is a better route to said destination than a predetermined shortest

path route to said destination is disclosed in Goguen, column 3, lines 38-47 and 51-56 (the tunnel route is better for some of the traffic to the serviced destinations than the shortest route, because if all the traffic goes on the shortest route there will be congestion on that route).

Regarding claim 74, wherein said tunnel comprises a label switched path from said head-end device to said tail-end device, and wherein said routing comprises affixing to said information a predetermined label associated with said label switched path for label switching of said information from said head-end device to said tail-end device by a number of intermediate devices is disclosed in Goguen, column 3, lines 18-34.

Regarding claim 76, routing information destined for other than said serviced destinations over one of said number of routes other than said tunnel is disclosed in Goguen, column 3, line 57-column 4, line 8 (if the tunnel route is full of traffic going to the serviced destinations, other traffic will not be allowed to go through the tunnel).

4. Claims 1-2, 4-14, 16-37, 39-40, 42-46, 48-50, 52-59, and 61-67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goguen in view of Chuah (6496491) and Perlman.

Regarding claim 1, establishing a tunnel to said tail-end device as one of said number of routes is disclosed in Goguen, column 2, lines 29-33. Determining a number of said destinations within a predetermined number of hops of said tail-end device to identify serviced destination is missing from Goguen. However, Chuah (6496491) discloses in column 17, line 38-column 18, line 15, tunnels that can increase or

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decrease their number of hops based on congestion in the tunnel. The destinations serviced by such a tunnel would be within a predetermined number of hops of the end of the tunnel, depending on where the system decides to put the end of the tunnel. It would have been obvious to one skilled in the art at the time of the invention to limit the number of hops that will be serviced by the end of the tunnel. The motivation would be to avoid congestion in the tunnel. Routing information for said serviced destinations through said tunnel is disclosed in Goguen, column 3, lines 7-9. Selectively routing only information destined for said services destinations through said tunnel is missing from Goguen. However, Perlman discloses column 6, lines 26-31, that the tunnel may be used for traffic only involving selected destinations. It would have been obvious to one skilled in the art at the time of the invention to use the traffic filtering in the tunnel of Perlman in the tunnel of Goguen. The motivation would be to allow the network manager to configure the tunnel to their specifications (Perlman, column 6, lines 29-31).

Regarding claim 13, tunnel establishment logic operably coupled to establish said tunnel to said tail-end device as one of said number of routes is disclosed in Goguen, column 2, lines 29-33. Determination logic operably coupled to determine a number of said destinations that are within a predetermined number of hops of said tail-end device to identify serviced destinations is missing from Goguen. However, Chuah (6496491) discloses in column 17, line 38-column 18, line 15, tunnels that can increase or decrease their number of hops based on congestion in the tunnel. The destinations serviced by such a tunnel would be within a predetermined number of hops of the end of the tunnel, depending on where the system decides to put the end of the tunnel. It

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would have been obvious to one skilled in the art at the time of the invention to limit the number of hops that will be serviced by the end of the tunnel. The motivation would be to avoid congestion in the tunnel. Routing logic operably coupled to route information destined for said serviced destinations from said head-end device to said tail-end device through said tunnel is disclosed in Goguen, column 3, lines 7-9. The routing being done selectively only for said serviced destinations is missing from Goguen. However, Perlman discloses column 6, lines 26-31, that the tunnel may be used for traffic only involving selected destinations. It would have been obvious to one skilled in the art at the time of the invention to use the traffic filtering in the tunnel of Perlman in the tunnel of Goguen. The motivation would be to allow the network manager to configure the tunnel to their specifications (Perlman, column 6, lines 29-31).

Regarding claim 25, a computer program for controlling a head-end device to limit traffic volume in a tunnel between said head-end device and a tail-end device, said head-end device having a number of routes to said tail-end for routing information to various destinations is disclosed in Goguen, figure 3, and column 3, lines 35-56 (the MPLS TE system is embodied in a router, which is a type of computer, which would contain computer programs to implement its functionality). Tunnel establishment logic operably coupled to establish said tunnel to said tail-end device as one of said number of routes is disclosed in Goguen, column 2, lines 29-33. Determination logic operably coupled to determine a number of said destinations that are within a predetermined number of hops of said tail-end device to identify serviced destinations is missing from Goguen. However, Chuah (6496491) discloses in column 17, line 38-column 18, line

15, tunnels that can increase or decrease their number of hops based on congestion in the tunnel. The destinations serviced by such a tunnel would be within a predetermined number of hops of the end of the tunnel, depending on where the system decides to put the end of the tunnel. It would have been obvious to one skilled in the art at the time of the invention to limit the number of hops that will be serviced by the end of the tunnel. The motivation would be to avoid congestion in the tunnel. Routing logic operably coupled to route information destined for said serviced destinations from said head-end device to said tail-end device through said tunnel is disclosed in Goguen, column 3, lines 7-9. The routing being done selectively only for said serviced destinations is missing from Goguen. However, Perlman discloses column 6, lines 26-31, that the tunnel may be used for traffic only involving selected destinations. It would have been obvious to one skilled in the art at the time of the invention to use the traffic filtering in the tunnel of Perlman in the tunnel of Goguen. The motivation would be to allow the network manager to configure the tunnel to their specifications (Perlman, column 6, lines 29-31).

Regarding claim 39, in an information communication network comprising a head-end device in communication with a tail-end device via a number of routes for routing information to various destinations, a method for limiting traffic volume in a tunnel is disclosed in Goguen, figure 3, and column 3, lines 35-56. Establishing said tunnel between said head-end device and said tail-end device as one of said number of routes and receiving information for a destination by said head-end device is disclosed in Goguen, column 2, lines 29-33. Determining whether said destination is within a



predetermined number of hops of said tail-end device to determine whether the destination is a serviced destination is missing from Goguen. However, Chuah (6496491) discloses in column 17, line 38-column 18, line 15, tunnels that can increase or decrease their number of hops based on congestion in the tunnel. The destinations serviced by such a tunnel would be within a predetermined number of hops of the end of the tunnel, depending on where the system decides to put the end of the tunnel. It would have been obvious to one skilled in the art at the time of the invention to limit the number of hops that will be serviced by the end of the tunnel. The motivation would be to avoid congestion in the tunnel. Selectively routing said information by said head-end device to said tail-end device over said tunnel, if and only if said destination is a serviced destination is missing from Goguen. However, Perlman discloses column 6, lines 26-31, that the tunnel may be used for traffic only involving selected destinations. It would have been obvious to one skilled in the art at the time of the invention to use the traffic filtering in the tunnel of Perlman in the tunnel of Goguen. The motivation would be to allow the network manager to configure the tunnel to their specifications (Perlman, column 6, lines 29-31).

Regarding claim 49, an apparatus for limiting traffic volume in a tunnel between said apparatus and a tail-end device, said apparatus having a number of routes to said tail-end for routing information to various destinations is disclosed in Goguen, figure 3, and column 3, lines 35-56. Tunnel establishment logic operably coupled to establish said tunnel to said tail-end device as one of said number of routes is disclosed in Goguen, column 2, lines 29-33. Receiving logic operably coupled to receive information

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for a destination is disclosed in column 3, line 21. Determination logic operably coupled to determine whether said destination is serviced by said tail-end device responsive to said destination being within a predetermined number of hops of said tail end device is missing from Goguen. However, Chuah (6496491) discloses in column 17, line 38- column 18, line 15, tunnels that can increase or decrease their number of hops based on congestion in the tunnel. The destinations serviced by such a tunnel would be with in a predetermined number of hops of the end of the tunnel, depending on where the system decides to put the end of the tunnel. It would have been obvious to one skilled in the art at the time of the invention to limit the number of hops that will be serviced by the end of the tunnel. The motivation would be to avoid congestion in the tunnel. Routing logic operably coupled to route said information to said tail-end device through said tunnel if and only if said destination is serviced by said tail-end device is missing from Goguen. However, Perlman discloses column 6, lines 26-31, that the tunnel may be used for traffic only involving selected destinations. It would have been obvious to one skilled in the art at the time of the invention to use the traffic filtering in the tunnel of Perlman in the tunnel of Goguen. The motivation would be to allow the network manager to configure the tunnel to their specifications (Perlman, column 6, lines 29-31).

Regarding claim 58, a computer program for controlling a head-end device to limit traffic volume in a tunnel between said head-end device and a tail-end device, said head-end device having a number of routes to said tail-end for routing information to various destinations is disclosed in Goguen, figure 3, and column 3, lines 35-56 (the MPLS TE system is embodied in a router, which is a type of computer, which would

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contain computer programs to implement its functionality). Tunnel establishment logic programmed to establish said tunnel to said tail-end device as one of said number of routes is disclosed in Goguen, column 2, lines 29-33. Receiving logic programmed to receive information for a destination is disclosed in column 3, line 21. Determination logic programmed to determine whether said destination is serviced by said tail-end device responsive to the destination being within a predetermined number of hops of the tail-end device is missing from Goguen. However, Chuah (6496491) discloses in column 17, line 38-column 18, line 15, tunnels that can increase or decrease their number of hops based on congestion in the tunnel. The destinations serviced by such a tunnel would be within a predetermined number of hops of the end of the tunnel, depending on where the system decides to put the end of the tunnel. It would have been obvious to one skilled in the art at the time of the invention to limit the number of hops that will be serviced by the end of the tunnel. The motivation would be to avoid congestion in the tunnel. Routing logic programmed to route said information to said tail-end device through said tunnel if and only if said destination is serviced by said tail-end device is disclosed in column 3, lines 7-9. The routing being done selectively based on a relationship between a destination address of the serviced destination and the tail end device is missing from Goguen. However, Perlman discloses column 6, lines 26-31, that the tunnel may be used for traffic only involving selected destinations. It would have been obvious to one skilled in the art at the time of the invention to use the traffic filtering in the tunnel of Perlman in the tunnel of Goguen. The motivation would be to

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allow the network manager to configure the tunnel to their specifications (Perlman, column 6, lines 29-31).

Regarding claim 2, said serviced destinations comprise directly connected hosts/subnets of said tail-end device is missing from Goguen. However, Chuah (6519254) discloses in figure 3, a tail end device (element 25) that is an ISP, which is directly connected to the destinations it services. It would have been obvious to one skilled in the art at the time of the invention to service destinations directly connected to the end of the tunnel. The motivation would be to use the tunnel as the fastest route to a group of destinations connected to the end of the tunnel. The predetermined number of hops being one is missing from Goguen. However, it is generally considered to be within the ordinary skill in the art to adjust, vary, select or optimize the numerical parameters or values of any system absent a showing of criticality in a particular recited value. Burden of showing criticality is on Applicant. In re Mason, 87 F2d 454, 32 USPQ 242 (CCPA 1937); Marconi Wireless Telegraph Co. v. US, 320 U.S. 1, 57 USPQ 471 (1943).

Regarding claims 14, 26, 40, 50, and 59, wherein said serviced destinations comprise directly connected hosts/subnets of said tail-end device is missing from Goguen. However, Chuah (6519254) discloses in figure 3, a tail end device (element 25) that is an ISP, which is directly connected to the destinations it services. It would have been obvious to one skilled in the art at the time of the invention to service destinations directly connected to the end of the tunnel. The motivation would be to use

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the tunnel as the fastest route to a group of destinations connected to the end of the tunnel.

Regarding claims 4, 16, 28, 42, 52, and 61, monitoring tunnel utilization, wherein said determining further comprises dynamically increasing said predetermined number of router hops if said tunnel is under-utilized and decreasing said predetermined number of router hops if said tunnel is over-utilized is missing from Goguen. However, Chuah (6496491) discloses in column 17, line 38-column 18, line 15, tunnels that can increase or decrease their number of hops based on congestion in the tunnel. It would have been obvious to one skilled in the art at the time of the invention to increase or decrease the number of hops based on congestion. The motivation would be to optimize utilization of the tunnel resources.

Regarding claims 5, 17, 29, 43, 53, and 62, wherein said serviced destinations comprise said tail-end device is disclosed in Goguen is disclosed in column 3, lines 7-9 (the packets are routed via the IP address to the tail-end device).

Regarding claims 6, 18, and 30, wherein said serviced destinations comprise a destination for which said tunnel is a better route to said destination than a predetermined shortest path route to said destination is disclosed in Goguen, column 3, lines 38-47 and 51-56 (the tunnel route is better for some of the traffic to the serviced destinations than the shortest route, because if all the traffic goes on the shortest route there will be congestion on that route).

Regarding claims 7, 19, 31, 44, 54, and 63, wherein said determining comprises: calculating said shortest path route to said destination, determining a shortest path

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route metric associate with said shortest path route; determining a tunnel metric associated with said tunnel, and determining from said shortest path route metric and said tunnel metric that said tunnel is a better route to said destination than said shortest path route is disclosed in Goguen, column 3, lines 38-47 and 51-56 (the congestion levels in the shortest path and in the tunnel path are determined, and the better route is selected, which may be the tunnel route).

Regarding claims 8, 20, 32, 45, 55, and 64 wherein said head-end device comprises a link state database, and wherein said determining comprises examining said link state database to determine which of said destinations are serviced by said tail-end device is disclosed in figure 1 of Goguen, element 140, and column 2, lines 10-13 (the router of figure 1 may be the head-end router).

Regarding claims 9, 21, 33, 46, 56, and 65, wherein said tunnel comprises a label switched path from said head-end device to said tail-end device, and wherein said routing comprises affixing to said information a predetermined label associated with said label switched path for label switching of said information from said head-end device to said tail-end device by a number of intermediate devices is disclosed in Goguen, column 3, lines 18-34.

Regarding claims 10, 22, and 34, the head-end device comprising a forwarding table indicating one of said number of routes for each of said number of destinations and wherein said determining further comprises indicating said tunnel for each of said serviced destinations in said forwarding table is disclosed in Goguen, column 2, lines 50

(the routing table is the same as a forwarding table, the routing table contains mappings for tunnels).

Regarding claims 11, 23, and 35, determining from said forwarding table that said information is associated with said tunnel is disclosed in Goguen, column 3, lines 7-9 (the IP address used to route packets through the tunnel is in the routing table).

Regarding claims 12, 24, 36, 48, 57, and 66, routing information destined for other than said serviced destinations over one of said number of routes other than said tunnel is disclosed in Goguen, column 3, line 57-column 4, line 8 (if the tunnel route is full of traffic going to the serviced destinations, other traffic will not be allowed to go through the tunnel).

Regarding claims 37 and 67, a computer program embodied in a computer readable medium is disclosed in Goguen, figure 3, and column 3, lines 35-56 (the MPLS TE system is embodied in a router, which is a type of computer, which would contain computer programs to implement its functionality).

5. Claims 38 and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goguen in view of Perlman and Chuah in further view of Goebel. A computer program is disclosed in Goguen, figure 3, and column 3, lines 35-56 (the MPLS TE system is embodied in a router, which is a type of computer, which would contain computer programs to implement its functionality). The computer program being embodied as a data signal is missing from Goguen. However, a computer program embodied as a data signal is disclosed in claim 18 of Goebel. It would have been obvious to one skilled in the art at the time of the invention to embody the computer

program as a data signal. The motivation would be to be able to propagate the instructions in the computer program to the hardware it is designed to control.

6. Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goguen in view of Perlman and Chuah in further view of Swallow.

Regarding claim 47, removing the label from said information and forwarding said information to said destinations based upon destination address information in said information is missing from Goguen. However, Swallow discloses this in column 3, lines 26-27. It would have been obvious to one skilled in the art at the time of the invention to remove the label after the packet has traversed the tunnel and before sending it to its final destination. The motivation would be to make the packet smaller to improve throughput, as the label is no longer needed.

7. Claim 75 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goguen in view of Chuah in further view of Swallow.

Regarding claim 75, the head-end device being operably coupled to affix to said information a predetermined label associated with said label switched path for label switching of said information from said head-end device to said tail-end device by a number of intermediate devices is disclosed in Goguen, is disclosed in column 3, lines 18-34. The tail-end device being operably coupled to remove said label from said information and forward said information to said destinations based upon destination address information in said information is missing from Goguen. However, Swallow discloses this in column 3, lines 26-27. It would have been obvious to one skilled in the art at the time of the invention to remove the label after the packet has traversed the



tunnel and before sending it to its final destination. The motivation would be to make the packet smaller to improve throughput, as the label is no longer needed.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia L. Davis whose telephone number is (571) 272-3117. The examiner can normally be reached on 8:30 to 6, Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**HUY D. VU**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER**